



Water-Data Report 2006

454809111095401 Local number 01N04E25DCDD01

Quaternary Alluvium

Gallatin County, MT

LOCATION.--Lat 45°48'09", long 111°09'54" referenced to North American Datum of 1927, in SE ¼ SW ¼ SE ¼ sec.25, T.1 N., R.4 E., Gallatin County, MT, Hydrologic Unit 10020008, Owner: U.S. Geological Survey.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Depth 101 ft. Upper casing diameter 6 in; top of first opening 10 ft, bottom of last opening 329 ft. Drilled August 1951. Well drilled and cased to 400 ft, screened from 10 ft to 329 ft. After completion well was filled in with gravel to within 101 ft of land surface.

DATUM.--Land-surface datum is 4,385 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 1.60 ft above land-surface datum, Dec. 7, 1951, to present. Reference point established Sept 17, 2003: top of steel rod, 2 ft southwest of well near east fence post, 1.05 ft below measuring point.

PERIOD OF RECORD.--1954 to current year.

GAGE.--Graphic recorder from May 1954 to August 1977. Digital water-level recorder set to record every hour from May 1991 to current year.

REMARKS.--All water levels reported below land-surface datum. No data from May 10 to July 18, and July 27 to Sept 30.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 5.91 ft, Aug. 13, 1968 (from recorder); lowest, 20.10 ft, Apr. 23-25, 2004 (from recorder).

EXTREMES FOR CURRENT YEAR.--Highest water level, 12.17 ft, Oct 8. (from recorder); lowest, 19.29 ft, Apr. 6 (from recorder).

**WATER LEVELS IN FEET BELOW LAND SURFACE DATUM
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

[Measurement method: S, steel tape; V, calibrated electric tape--accuracy of instrument has been checked. Water-level status: --, static.]

Date	Water level	Measure-ment method	Water level status	Date	Water level	Measure-ment method	Water level status
Oct 17	13.26	S	--	May 10	18.00	V	--
Jan 24	17.98	S	--	Jul 18	14.36	S	--

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DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	12.58	14.62	16.43	17.42	18.18	18.75	19.24	18.76	---	---	---	---
2	12.60	14.68	16.46	17.45	18.20	18.74	19.25	18.62	---	---	---	---
3	12.53	14.74	16.50	17.47	18.23	18.76	19.26	18.53	---	---	---	---
4	12.46	14.81	16.55	17.50	18.26	18.80	19.27	18.43	---	---	---	---
5	12.40	14.88	16.58	17.53	18.29	18.83	19.28	18.29	---	---	---	---
6	12.30	14.92	16.62	17.55	18.31	18.86	19.28	18.22	---	---	---	---
7	12.21	14.99	16.66	17.56	18.34	18.88	19.17	18.19	---	---	---	---
8	12.47	15.07	16.69	17.59	18.36	18.90	19.01	18.14	---	---	---	---
9	12.73	15.22	16.72	17.62	18.38	18.92	18.91	18.08	---	---	---	---
10	12.86	15.36	16.76	17.64	18.41	18.94	18.84	---	---	---	---	---
11	12.92	15.45	16.79	17.65	18.44	18.94	18.82	---	---	---	---	---
12	12.99	15.53	16.83	17.68	18.46	18.95	18.82	---	---	---	---	---
13	13.04	15.61	16.86	17.71	18.48	18.97	18.82	---	---	---	---	---
14	13.10	15.66	16.91	17.73	18.50	18.99	18.84	---	---	---	---	---
15	13.16	15.74	16.95	17.75	18.53	19.00	18.85	---	---	---	---	---
16	13.23	15.79	16.98	17.78	18.55	19.01	18.88	---	---	---	---	---
17	13.28	15.84	17.02	17.80	18.56	19.01	18.91	---	---	---	---	---
18	13.30	15.88	17.06	17.82	18.58	19.03	18.94	---	---	---	---	---
19	13.30	15.93	17.10	17.85	18.60	19.04	18.96	---	---	14.31	---	---
20	13.31	15.98	17.13	17.88	18.63	19.06	18.97	---	---	14.28	---	---
21	13.54	16.02	17.17	17.90	18.66	19.08	18.99	---	---	14.24	---	---
22	13.75	16.07	17.20	17.93	18.68	19.11	19.00	---	---	14.07	---	---
23	13.89	16.11	17.23	17.95	18.72	19.13	19.02	---	---	13.88	---	---
24	14.02	16.15	17.27	17.98	18.75	19.14	19.04	---	---	13.80	---	---
25	14.10	16.18	17.30	18.00	18.78	19.15	19.06	---	---	13.73	---	---
26	14.17	16.21	17.32	18.02	18.81	19.16	19.07	---	---	13.70	---	---
27	14.24	16.27	17.36	18.05	18.83	19.17	19.08	---	---	---	---	---
28	14.31	16.32	17.38	18.07	18.79	19.18	19.07	---	---	---	---	---
29	14.41	16.35	17.41	18.10	---	19.20	18.95	---	---	---	---	---
30	14.50	16.39	17.40	18.13	---	19.21	18.85	---	---	---	---	---
31	14.56	---	17.40	18.15	---	19.23	---	---	---	---	---	---
Max	14.56	16.39	17.41	18.15	18.83	19.23	19.28	---	---	---	---	---
Min	12.21	14.62	16.43	17.42	18.18	18.74	18.82	---	---	---	---	---

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